1 Claims

2 I (We) claim:

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4 1. In a modular prosthesis to be used in bonc joint replacement

5 having a weight bearing component with a proximal end, a distal

6 end, and a through bore therebetween, an intramedullary rod

7 having a distal end and a proximal end adapted to be connected to

8 said weight bearing component, the improvement comprising a sub-

9 assembly composed of an elongated link having a proximal end and

10 a distal end, said distal end of said link connected with a

11 tubular extension having a mouth, said connection permitting

12 relative rotational and longitudinal movement between said

13 tubular extension and said link, said tubular extension rigidly

14 affixed to said proximal end of said intramedullary rod whereby

15 said proximal end of said link is adapted for insertion in said

16 through bore.

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18 2. In a modular prosthesis of claim 1 said improvement

19 comprising an enlargement near said distal end of said link, said

20 tubular extension disposed between said enlargement and said

proximal end of said link, said mouth being smaller than said

22 enlargement.

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- 1 3. In a modular prosthesis of claim 1, said improvement
- 2 comprising said proximal end of said intramedullary rod having a
- 3 blind bore, said distal end of said link received in said blind
- 4 bore.

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- 6 4. In a modular prosthesis of claim 1, said improvement
- 7 comprising said proximal end of said link having a planar
- 8 surface, said through bore having a complementary shape whereby
- 9 said link and said weight bearing component are adapted to be
- 10 rotationally fixed when said link is received in said through
- 11 bore.

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- 13 5. A modular joint prosthesis comprising a neck, a trochanter, a
- 14 fastener and a sub-assembly including an intramedullary rod and a
- 15 link, said neck having a through bore, said trochanter having a
- 16 through bore, said link and said intramedullary rod of said sub-
- 17 assembly relatively movable, said link adapted to be telescoped
- 18 with said through bore of said trochanter and said through bore
- 19 of said neck whereby said trochanter is between said
- 20 intramedullary rod and said neck and said fastener is adapted to
- 21 lock said neck, said trochanter and said sub-assembly together.

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23 6. A modular joint of claim 5 wherein said sub-assembly includes

1 a tubular extension affixed to said intramedullary rod and

2 encircles said link, said link and said tubular extension

3 relatively movable.

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5 7. A modular joint of claim 5 wherein said through bore in said

6 trochanter is tapered and said tubular extension includes a

7 complementary taper whereby said complementary tapers combine to

8 form a press fit.

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10 8. A modular joint of claim 5 wherein said link has planar

11 surfaces and said through bore of said trochanter has

12 complementary surfaces whereby said link and said trochanter are

13 adapted be non-rotationally connected.

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15 9. An artificial hip joint comprising a neck having a

16 longitudinal axis with an arm for receiving a ball extending at

17 an angle from said longitudinal axis, a through bore with an

18 annular skirt along said longitudinal axis, said through bore

19 being countersunk, a trochanter with a through bore, a portion of

20 said trochanter through bore adapted to receive said annular

skirt for rotational movement, an end portion of said trochanter

through bore being tapered, and an integrally formed sub-assembly

23 having a link and a intramedullary rod connected by a tubular

extension with the link and the intramedullary rod being relatively movable, said link including a threaded bore, said link adapted for insertion in said countersunk through bore and said trochanter through bore, said tubular extension having a taper complementary with said taper of said tapered end portion of said trochanter through bore whereby